

## UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)							DATE <b>February 2000</b>																																														
BUDGET ACTIVITY <b>4 - Demonstration and Validation</b>				PE NUMBER AND TITLE <b>0603747A Soldier Support and Survivability</b>																																																	
COST (In Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost																																												
Total Program Element (PE) Cost	7594	12719	13574	17415	20395	22414	22299	Continuing	Continuing																																												
DC09 Soldier Support Equipment	1450	5564	6703	8878	11858	13040	13202	Continuing	Continuing																																												
D669 Clothing and Equipment	3645	4058	3491	4809	4849	5502	5223	Continuing	Continuing																																												
D610 Food Advanced Development	2499	3097	3380	3728	3688	3872	3874	Continuing	Continuing																																												
<p><b>A. Mission Description and Budget Item Justification:</b> Provide advanced development for unit/organizational equipment, improved individual clothing and equipment, airdrop equipment, rigid wall and fabric shelters, food and field service equipment which will enhance soldier battlefield effectiveness, survivability, sustainment and quality of life. Program element supports advanced development of a new generation of field service support items and shelters, including collective protection and shelter heaters for unit/organizational use to enhance the quality of life of field soldiers and the ability to project forces to Spartan environments. Program Element (PE) also supports advanced development of individual clothing and equipment items to lighten the soldier's load and incorporate protection against chemical and biological agents, thermal nuclear flash, ballistic threats, visual and electronic detection and environmental hazards. Program Element also supports advanced development of food, packaging, and food service equipment systems to reduce food service logistics for all four services, lighten the warfighter's load, and increase fuel efficiency and to improve or replace existing systems. PE also supports the development of air delivery equipment (personal and cargo) to improve Army force projection capabilities, increase warfighter safety and support national security objectives.</p>																																																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><b>B. Program Change Summary</b></th> <th style="text-align: center;"><u>FY 1999</u></th> <th style="text-align: center;"><u>FY 2000</u></th> <th style="text-align: center;"><u>FY 2001</u></th> </tr> </thead> <tbody> <tr> <td>Previous President's Budget (<u>FY 2000/2001</u> PB)</td> <td style="text-align: center;">7522</td> <td style="text-align: center;">12804</td> <td style="text-align: center;">13642</td> </tr> <tr> <td>Appropriated Value</td> <td style="text-align: center;">7581</td> <td style="text-align: center;">12804</td> <td></td> </tr> <tr> <td>Adjustments to Appropriated Value</td> <td></td> <td></td> <td></td> </tr> <tr> <td>a. Congressional General Reductions</td> <td style="text-align: center;">-59</td> <td></td> <td></td> </tr> <tr> <td>b. SBIR / STTR</td> <td style="text-align: center;">-135</td> <td></td> <td></td> </tr> <tr> <td>c. Omnibus or Other Above Threshold Reductions</td> <td></td> <td style="text-align: center;">-46</td> <td></td> </tr> <tr> <td>d. Below Threshold Reprogramming</td> <td style="text-align: center;">+237</td> <td></td> <td></td> </tr> <tr> <td>e. Rescissions</td> <td style="text-align: center;">-30</td> <td style="text-align: center;">-39</td> <td></td> </tr> <tr> <td>Adjustments to Budget Years Since <u>FY 2000/2001</u> PB</td> <td></td> <td></td> <td style="text-align: center;">-68</td> </tr> <tr> <td>Current Budget Submit (<u>FY 2001</u> PB)</td> <td style="text-align: center;">7594</td> <td style="text-align: center;">12719</td> <td style="text-align: center;">13574</td> </tr> </tbody> </table>										<b>B. Program Change Summary</b>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	Previous President's Budget ( <u>FY 2000/2001</u> PB)	7522	12804	13642	Appropriated Value	7581	12804		Adjustments to Appropriated Value				a. Congressional General Reductions	-59			b. SBIR / STTR	-135			c. Omnibus or Other Above Threshold Reductions		-46		d. Below Threshold Reprogramming	+237			e. Rescissions	-30	-39		Adjustments to Budget Years Since <u>FY 2000/2001</u> PB			-68	Current Budget Submit ( <u>FY 2001</u> PB)	7594	12719	13574
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ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							DATE <b>February 2000</b>		
BUDGET ACTIVITY <b>4 - Demonstration and Validation</b>				PE NUMBER AND TITLE <b>0603747A Soldier Support and Survivability</b>				PROJECT <b>DC09</b>	
COST (In Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
DC09 Soldier Support Equipment	1450	5564	6703	8878	11858	13040	13202	Continuing	Continuing
<p><b>A. Mission Description and Justification:</b> Develop and field soft shelters, showers, latrines, heaters, mortuary affairs, organizational equipment and other combat service support equipment to improve unit sustainability and combat effectiveness. Conduct demonstration and validation of aerial delivery systems for equipment and personnel, with emphasis on reduced incidence of injuries, improved safety and accuracy, and increased survivability of aircraft, equipment, and personnel. Develop a family of tactical rigid wall shelters, which enhances soldier survivability and sustainability of command, control, communications and intelligence. Shelters provide highly mobile, joint service platforms for the digitization of the battlefield, housing many critical vehicle-mounted battlefield systems, medical critical care in a Chemical/Biological (C/B) environment and high tech maintenance.</p> <p><b>FY 1999 Accomplishments:</b></p> <ul style="list-style-type: none"> <li>• 241 Prepared solicitation for production contract and conducted test and evaluation of the Maturing Theater Latrines candidates, select best design.</li> <li>• 792 Awarded R&amp;D contract for Rapid Inflation System for the Aviation Maintenance Shelter.</li> <li>• 282 Completed market investigation for the Modular Deck System.</li> <li>• 135 Conducted market investigation for candidate Mortuary Affairs Remains Kit.</li> </ul> <p>Total 1450</p> <p><b>FY 2000 Planned Program:</b></p> <ul style="list-style-type: none"> <li>• 1533 Terminate existing Advanced Tactical Parachute System R&amp;D contract. Conduct a Jump-off for new R&amp;D ATPS Contract.</li> <li>• 597 Complete operational testing; award LRIP Contract and Type Classify the Ejection Parachute Jettison System.</li> <li>• 1461 Conduct system and feasibility testing for the Dual Row Airdrop System.</li> <li>• 962 Conduct developmental testing of Dual Row Airdrop System.</li> <li>• 862 Complete production verification testing for the Type III (2.5 Ton truck/LMTV) and Type IV (5 Ton Truck/MTV) Cargo Bed Cover variants, build LRIP items, and initiate field evaluation. Conduct First Article Testing for Cargo Bed Cover Type III and Type IV variants. Complete Milestone III and field evaluation for Cargo Bed Cover Type III and Type IV variants.</li> <li>• 149 Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR) Program</li> </ul> <p>Total 5564</p>									
<div style="display: flex; justify-content: space-between;"> <span>Project DC09</span> <span>Page 2 of 12 Pages</span> <span>Exhibit R-2A (PE 0603747A)</span> </div>									

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**FY 2001 Planned Program:**

- 3261 Conduct Operational Test for the Dual Row Airdrop System.
- 523 Begin concept exploration and conduct market investigation for the Enhanced Container Delivery System.
- 193 Conduct contract solicitation and technical evaluations for FY02 production contract and Type Classify the Follow-on-Latrine.
- 697 Conduct Market Investigation, prepare documentation and award contract for prototype procurement for the Integrated Forward Area Remains Kit.
- 1536 Transition Cargo Bed Covers Type III (2.5 Ton Truck/LMTV) and Type IV (5 Ton Truck/MTV) variants into full production. Award LRIP contract for Cargo Bed Covers for High Mobility Trailer Variants.
- 493 Conduct Market Survey for the EPJS – Heavy. Perform Concept Testing on the EPJS – Heavy.

Total 6703

<b>B. Other Program Funding Summary</b>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	To <u>Compl</u>	Total <u>Cost</u>
RDTE, 0604713.DC40, Unit/Organizational Equipment	1555	4511	5871	9197	12488	13965	14299	Cont	Cont
M82701, Laundry Advance System	7121	7880	12580	13224	18902	7161		Cont	Cont
M82703, Containerized Self-Service Laundry		976						Cont	976
M82704, Containerized Shower		946		1258	1158	1231		Cont	4593
M82706, Follow-On Latrine				905	664	870		Cont	2439
MA7801, Advanced Tactical Parachute System					27894			Cont	27894
MA7802, Extraction Parachute Jettison Device		2381						Cont	2381
MA7805, Universal Static Line		976	3971					Cont	4947
MA8061, Lightweight Maintenance Enclosure		3690	1999	5613	6708	6424	6418	Cont	30852

**C. Acquisition Strategy:** Accelerate product development and testing which transition to Engineering and Manufacturing Development and/or Production.

<b>D. Schedule Profile</b>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
Conduct Test and Evaluation on Maturing Theater Latrine prototypes	3Q*						
Award R&D Contract for Rapid Inflation System for the Aviation Maintenance Shelter	3Q*						
Conduct Market Investigation for the Modular Deck System	2Q*						
Conduct Market Investigation for the Mortuary Affairs Remains Kit	4Q*						

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ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							DATE February 2000
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<b>D. Schedule Profile</b>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
Conduct Feasibility and System testing for the Dual Row Airdrop System	4Q						
Complete Operational Testing for the Extraction Parachute Jettison System		1Q					
Type Classify the Extraction Parachute Jettison System		3Q					
Complete Production Verification for the Type III and Type IV Cargo Bed Cover variants		3Q					
Conduct First Article Testing for the Type III and Type IV Cargo Bed Cover variants		3Q					
Conduct MS I/II for the Type III and Type IV Cargo Bed Cover variants		4Q					
Complete Developmental Testing for Dual Row Airdrop System		4Q					
Conduct Operational Testing for the Dual Row Airdrop System			2Q				
Type Classify the Follow-on-Latrine			1Q				
Award R&D Contract for the Integrated Forward Area Remains Kit			2Q				
Complete MS III for the Type III and Type IV Cargo Bed Cover variants			3Q				
Award LRIP contract for Cargo Bed Cover High Mobility Trailer variant			2Q				
*Denotes a completed milestone							
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ARMY RDT&E COST ANALYSIS (R-3)										DATE <b>February 2000</b>		
BUDGET ACTIVITY <b>4 - Demonstration and Validation</b>					PE NUMBER AND TITLE <b>0603747A Soldier Support and Survivability</b>					PROJECT <b>DC09</b>		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	<u>FY 1999</u> Cost	<u>FY 1999</u> Award Date	<u>FY 2000</u> Cost	<u>FY 2000</u> Award Date	<u>FY 2001</u> Cost	<u>FY 2001</u> Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. SSCOM	In-House	NRDEC	13072	373		352		630		Cont.	14427	Cont.
b. Contracts	Various	Various	8078	714	Various	849	Various	1498	Various	Cont.	11139	Cont.
Subtotal Product Development:			21150	1087		1201		2128			25566	
II. Support Costs: Not Applicable												
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	<u>FY 1999</u> Cost	<u>FY 1999</u> Award Date	<u>FY 2000</u> Cost	<u>FY 2000</u> Award Date	<u>FY 2001</u> Cost	<u>FY 2001</u> Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. TECOM/OEC	MIPR	Various	2750	123	Various	0	Various	4300	Various	Cont.	7173	Cont.
Subtotal Test and Evaluation:			2750	123				4300			7173	
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	<u>FY 1999</u> Cost	<u>FY 1999</u> Award Date	<u>FY 2000</u> Cost	<u>FY 2000</u> Award Date	<u>FY 2001</u> Cost	<u>FY 2001</u> Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Various	In-House	PM-Soldier Support,	1621	240		4214		275		Cont.	6499	Cont.
b. Various	In-House	SSCOM	192								192	
c. STTR/SBIR						149						
Subtotal Management Services:			1813	240		4363		275			6691	
Project Total Cost:			25713	1450		5564		6703			39430	

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ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2AExhibit)							DATE <b>February 2000</b>		
BUDGET ACTIVITY <b>4 - Demonstration and Validation</b>				PE NUMBER AND TITLE <b>0603747A Soldier Support and Survivability</b>				PROJECT <b>D669</b>	
COST (In Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
D669 Clothing and Equipment	3645	4058	3491	4809	4849	5502	5223	Continuing	Continuing
<p><b>A. Mission Description and Budget Item Justification:</b> Use state-of-the-art technology to develop improved tactical and non-tactical clothing and individual equipment to enhance the lethality, survivability, sustainability, and mobility of the individual soldier.</p> <p><b>FY 1999 Accomplishments:</b></p> <ul style="list-style-type: none"> <li>• 873 Completed market survey, prepared solicitation documentation, and procured test items for the Cold Weather Canteen</li> <li>• 2114 Completed source selection, defined competitive range, and awarded contract for Military Eye Protection System (MEPS)</li> <li>• 206 Completed market survey and initiated operational testing for the Interim Combat Boot</li> <li>• 5 Completed testing on the Improved Intermediate Cold/Wet Boot (ICWB) with Phase Change Insulation. Based on results, program was terminated</li> <li>• 447 Conducted In-house engineering support services, computer services; conducted technical and program reviews</li> <li>Total 3645</li> </ul> <p><b>FY 2000 Planned Program:</b></p> <ul style="list-style-type: none"> <li>• 208 Obtain Milestone I/II approval, award contract for test items, and initiate developmental testing/operational testing for the Advanced Bomb Suit</li> <li>• 2520 Define non-laser lens configuration and prescription lens corrections for goggles and spectacles, initial prototype testing, and complete study on laser lenses for Military Eye Protection System (MEPS)</li> <li>• 573 Complete developmental testing/operational testing and type classify the Cold Weather Canteen</li> <li>• 282 Obtain Milestone I/II approval and solicitation release and evaluation for the Fighting Position Revetment</li> <li>• 139 Complete operational testing and provide results to the Army Uniform Board (AUB) on the Interim Combat Boot</li> <li>• 230 In-house engineering support services, computer services, conduct technical and program reviews</li> <li>• 106 Small Business Innovative Research/Small Business Technology Transfer Program</li> <li>Total 4058</li> </ul> <p><b>FY 2001 Planned Program:</b></p> <ul style="list-style-type: none"> <li>• 240 Continue developmental testing/operational testing on the Advanced Bomb Suit</li> <li>• 714 Award contract and conduct preliminary selection testing for the Fighting Position Revetment</li> <li>• 2156 Procure prototypes, complete development testing/operational testing, and complete evaluations for Military Eye Protection System (MEPS)</li> <li>• 381 In-house engineering support services, computer services, conduct technical and program reviews</li> <li>Total 3491</li> </ul>									
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BUDGET ACTIVITY 4 - Demonstration and Validation					PE NUMBER AND TITLE 0603747A Soldier Support and Survivability				PROJECT D669		
B. <u>Other Program Funding Summary</u>		<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	To <u>Compl</u>	Total <u>Cost</u>	
RDTE, 0604713.DL40, Clothing and Equipment		4121	3505	4266	4542	4558	5126	5114	Cont	Cont	
OMA, 121017, Central Funding and Fielding		48130	88467	79590	90013	73401	80941	113533	Cont	Cont	
<p>C. <u>Acquisition Strategy</u>: Developments transition to engineering and manufacturing development (EMD) followed by transition to production. However, when developments are sufficiently mature for some items, they can be type classified and transitioned to production.</p>											
D. <u>Schedule Profile</u>		<u>FY 1997</u>	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>
Life Cycle Systems Review		2&4Q*	2&4Q*	2*&4Q	2&4Q	2&4Q	2&4Q	2&4Q	2&4Q	2&4Q	2&4Q
*Denotes a completed milestone											
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ARMY RDT&E COST ANALYSIS (R-3)										DATE <b>February 2000</b>		
BUDGET ACTIVITY <b>4 - Demonstration and Validation</b>					PE NUMBER AND TITLE <b>0603747A Soldier Support and Survivability</b>					PROJECT <b>D669</b>		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	<u>FY 1999</u> Cost	<u>FY 1999</u> Award Date	<u>FY 2000</u> Cost	<u>FY 2000</u> Award Date	<u>FY 2001</u> Cost	<u>FY 2001</u> Award Date	Cost To Complete	Total Cost	Target Value of Contract
a.	MIPR	SBCCOM, Natick MA		420		908		1631			2959	Con't
b.	Contracts	Various		2718	Various	2624	TBD	475	TBD		5817	Con't
Subtotal Product Development:				3138		3532		2106			8776	
Remark: Product development costs vary annually depending on the number and a type of programs being evaluated.												
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	<u>FY 1999</u> Cost	<u>FY 1999</u> Award Date	<u>FY 2000</u> Cost	<u>FY 2000</u> Award Date	<u>FY 2001</u> Cost	<u>FY 2001</u> Award Date	Cost To Complete	Total Cost	Target Value of Contract
a.	MIPR	LOGSA, AL		50		50		50			150	Con't
b.	Contract	Various						205			205	Con't
Subtotal Support Costs:				50		50		255			355	
Remark: Support costs can vary annually depending on the number and types of items we are evaluating.												
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	<u>FY 1999</u> Cost	<u>FY 1999</u> Award Date	<u>FY 2000</u> Cost	<u>FY 2000</u> Award Date	<u>FY 2001</u> Cost	<u>FY 2001</u> Award Date	Cost To Complete	Total Cost	Target Value of Contract
a.	MIPR	ATEC				140		730			870	
b.	MIPR	OFIG, MA		10							10	
Subtotal Test and Evaluation:				10		140		730			880	
Remark: Testing costs vary annually by item.												
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	<u>FY 1999</u> Cost	<u>FY 1999</u> Award Date	<u>FY 2000</u> Cost	<u>FY 2000</u> Award Date	<u>FY 2001</u> Cost	<u>FY 2001</u> Award Date	Cost To Complete	Total Cost	Target Value of Contract
a.	In-House	PM-Soldier, VA		447		230		400			1077	
b.	SIBR/STTR					106					106	
Subtotal Management Services:				447		336		400			1183	
Remark: Management services costs vary annually depending on the number and a type of programs being evaluated.												
Project Total Cost:				3645		4058		3491			11194	
Remark: *Based on the number of years Clothing and Individual Equipment programs have been in existence, it is impossible to capture all prior year costs.												
<div style="display: flex; justify-content: space-between;"> <span>Project D669</span> <span>Page 8 of 12 Pages</span> <span>Exhibit R-3 (PE 0603747A)</span> </div>												



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COST (In Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
D610 Food Advanced Development	2499	3097	3380	3728	3688	3872	3874	Continuing	Continuing
<p><b>A. Mission Description and Justification:</b> The project funds the development of Joint Service Food/Food Service Equipment to improve individual combat effectiveness and reduce logistics burden and Operation &amp; Support (O&amp;S) costs of subsistence support for service personnel. Enhance rations by increasing quality, acceptability and variety. Develop multi-fuel, rapidly deployable field food service equipment to support combat, humanitarian missions and operations-other-than-war. Improve equipment to enhance safety in food service, utilize battlefield fuel and decrease fuel and water requirements. Program is reviewed and validated twice annually by the Department of Defense (DoD) Food and Nutrition Research and Engineering Board as part of the Joint Service Food Program. Additionally, the project will, conduct advanced development of improved subsistence and subsistence support items to enhance soldier effectiveness and quality of life in all four Services as part of an integrated DoD Food Research, Development, Test, Evaluation and Engineering (RDTE&amp;E) program.</p> <p><b>FY 1999 Accomplishments:</b></p> <ul style="list-style-type: none"> <li>• 205 Prepared design concept for Air Force all electric field kitchen system to meet specific deployment requirements of the Air Expeditionary Force.</li> <li>• 392 Evaluated emerging food service equipment technologies and food processes for direct shipboard application to reduce life cycle costs.</li> <li>• 120 Investigated hand sinks, evaluated new tray pack heater, griddle coatings and heat shields for use with fielded food service equipment.</li> <li>• 222 Terminated storage studies/demonstrations of glass coated polymeric tray due to deterioration of glass coating in retorting. Identified self-assembling silica nano-fillers to be used to optimize polymeric tray and ensure long term storage stability of group rations.</li> <li>• 581 Continued to identify and conduct user testing of improvements for individual and group ration systems. Transitioned selected heat and serve ration components and Meals Ready to Eat (MRE) improvements, increasing menu variety and acceptance. Developed prototype lightweight minimal "B" ration system to meet specific Air Force requirements. Developed prototype module of Arctic and Medical group rations for all services.</li> <li>• 296 Completed field tests in different environments to establish effectiveness of selected performance enhancing ration components (PERCs) and supplements, demonstrated overall productivity and suitability of PERCs-based rations and transitioned to procurement.</li> <li>• 267 Completed Phase II of MRE ration redesign for nutritional optimization and logistical parameters. Reported all findings to Joint Services Operational Ration Forum and Food Nutrition Research and Engineering Board.</li> <li>• 416 Developed a baseline on which to design future "on demand" feeding systems to reduce logistical burden.</li> <li>Total 2499</li> </ul> <p><b>FY 2000 Planned Program:</b></p> <ul style="list-style-type: none"> <li>• 110 Develop, fabricate and evaluate improvements to field feeding systems as required by the services and incorporate changes to support ongoing and future procurements.</li> <li>• 459 Develop shipboard applications for state-of-the-art food service equipment technologies and pre-prepared foods.</li> <li>• 372 Conduct design reviews of Air Force all electric field kitchen system and procures long lead items.</li> </ul>									
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<b>ARMY RDT&amp;E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)</b>		DATE <b>February 2000</b>
BUDGET ACTIVITY <b>4 - Demonstration and Validation</b>	PE NUMBER AND TITLE <b>0603747A Soldier Support and Survivability</b>	PROJECT <b>D610</b>
<p><b>FY 2000 Planned Program: (continued)</b></p> <ul style="list-style-type: none"> <li>• 134 Complete design and field testing of lightweight minimal "B" ration for the Air Force.</li> <li>• 665 Continue advanced development of ration components and conduct user testing of improvements for individual and group ration systems. Transition selected heat and serve ration components and Meals Ready to Eat (MRE) items.</li> <li>• 424 Develop ration delivery prototype, which incorporates on demand feeding concepts.</li> <li>• 238 Initiate polymeric tray optimization efforts, focusing on "drop-in" technology enhancements to the current tray structure in order to ensure storage stability, oven ability, etc.</li> <li>• 217 Conduct detailed analysis of accelerated storage data for operational rations to establish a baseline of information, which will be used to develop a predictive model.</li> <li>• 146 Develop a management decision document that allows leaders to incorporate conceptual and quantitative variables in decision process prior to development of new special purpose rations.</li> <li>• 284 Conduct Market Investigation and requirements development for the Battlefield Kitchen to replace the Mobile Kitchen Trailer. Prepare solicitation for combined R&amp;D and Production Contract.</li> <li>• 48 Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR) Program</li> </ul> <p>Total 3097</p> <p><b>FY 2001 Planned Program:</b></p> <ul style="list-style-type: none"> <li>• 113 Develop, fabricate and evaluate improvements to field feeding systems as required by the services and incorporate changes to support ongoing and future procurements</li> <li>• 407 Continue assessment of new food technology and food service equipment technologies and complete shipboard evaluations.</li> <li>• 436 Complete fabrication and conduct DT/OT of Air Force all electric field kitchen system.</li> <li>• 207 Develop a Marine Corps 8x8x10 refrigerated ISO container to improve efficiency and reduce weight to cube ratio and maintenance requirements.</li> <li>• 813 Continue improvement of individual and group rations and conduct field test of transitioning technologies to include irradiated foods, high frequency processed items, and innovative packaging systems.</li> <li>• 429 Conduct field demonstration of the efficiency of an alternative ration delivery prototype.</li> <li>• 285 Complete investigation of mono layer/high impact alternates to current polymeric tray. Initiate Technical Tests of prototype trays.</li> <li>• 520 Design Battlefield Kitchen to replace the Mobile Kitchen Trailer. Initiate fabrication of prototypes.</li> <li>• 170 Conduct storage studies of microbiological and sensory evaluations on operational ration components to correlate with baseline date.</li> </ul> <p>Total 3380</p>		
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## ARMY RDT&amp;E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)

DATE  
February 2000BUDGET ACTIVITY  
**4 - Demonstration and Validation**PE NUMBER AND TITLE  
**0603747A Soldier Support and Survivability**PROJECT  
**D610**

<b>B. Other Program Funding Summary:</b>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	To Compl	Total Cost
RDTE, 0604713.D548, Military Subsistence System	1194	1620	1747	1856	1863	1979	1976	Cont	Cont
OPA3, M65803, Kitchen, Containerized, Field	7337	7032	6133	5609	7501	6975	6562	Cont	Cont
OPA 3, M65802, Sanitation Center, Field Feeding		658	4364	2398	7403	7606	7721	Cont	Cont
M65801, Refrigeration Equipment	5060	927	1479	922	2359	2504	2518		

C. **Acquisition Strategy:** Project development transition to Engineering and Manufacturing Development and procurement.

<b>D. Schedule Profile</b>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
Transitioned selected heat and serve ration components and MRE improvements	3Q*						
Completed field tests of selected performance enhancing ration components (PERCs).	3Q*						
Terminated storage studies/demonstrations of glass coated polymeric tray. Explore Nano-fillers	3Q*						
Completed MRE ration redesign for nutritional optimization and logistical parameters.	3Q*						
Conduct Market Investigation of concept to replace MKT		3Q					
Develop shipboard applications for state-of-the-art food service equipment.		3Q					
Develop decision document to support for new special purpose rations		4Q					
Complete design and field testing of lightweight minimal "B" ration.		3Q					
Design and fabricate a Battlefield Kitchen Prototype			3Q				
Conduct DT/OT of Air Force all electric field kitchen system			3Q				

\*Denotes a completed milestone

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ARMY RDT&E COST ANALYSIS (R-3)										DATE <b>February 2000</b>		
BUDGET ACTIVITY <b>4 - Demonstration and Validation</b>				PE NUMBER AND TITLE <b>0603747A Soldier Support and Survivability</b>						PROJECT <b>D610</b>		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	<u>FY 1999</u> Cost	<u>FY 1999</u> Award Date	<u>FY 2000</u> Cost	<u>FY 2000</u> Award Date	<u>FY 2001</u> Cost	<u>FY 2001</u> Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. SSCOM	In-House		14882	849		1440		1560		Cont.	18731	Cont.
b. Contracts	Various		4128	969	Various	976	Various	1084	Various	Cont.	7157	Cont.
Subtotal Product Development:			19010	1818		2416		2644			25888	
II. Support Costs: There are no efforts associated with the delivery of any of a fully integrated system that are in direct support of this project and essential to the development, training, operation, and maintenance of systems in this project.												
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	<u>FY 1999</u> Cost	<u>FY 1999</u> Award Date	<u>FY 2000</u> Cost	<u>FY 2000</u> Award Date	<u>FY 2001</u> Cost	<u>FY 2001</u> Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. TECOM/OEC	MIPR	Various	1696	526		526		569		Cont.	3317	Cont.
Subtotal Test and Evaluation:			1696	526		526		569			3317	
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	<u>FY 1999</u> Cost	<u>FY 1999</u> Award Date	<u>FY 2000</u> Cost	<u>FY 2000</u> Award Date	<u>FY 2001</u> Cost	<u>FY 2001</u> Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Project Ofc Management	In-House	SSCOM	1115	155		107		167		Cont.	1592	Cont.
b. STTR/SIBR						48						
Subtotal Management Services:			1115	155		155		167			1592	
Project Total Cost:			21821	2499		3097		3380			30797	
Project D610 <div style="float: right;">             Page 12 of 12 Pages             Exhibit R-3 (PE 0603747A)           </div>												